

CLASSIFICATION CONFIDENTIAL **CONFIDENTIAL**
 CENTRAL INTELLIGENCE AGENCY
 INFORMATION FROM
 FOREIGN DOCUMENTS OR RADIO BROADCASTS CD NO.

50X1-HUM

COUNTRY USSR
 SUBJECT Scientific - Electrical power, electrical equipment
 HOW PUBLISHED Book
 WHERE PUBLISHED Moscow
 DATE PUBLISHED 1948
 LANGUAGE Russian

DATE OF INFORMATION 1948
 DATE DIST. ✓ Apr 1950
 NO. OF PAGES 3
 SUPPLEMENT TO REPORT NO.

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF ESPIONAGE ACT 50 U. S. C. 31 AND 32, AS AMENDED. ITS TRANSMISSION OR THE REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW. REPRODUCTION OF THIS FORM IS PROHIBITED.

THIS IS UNEVALUATED INFORMATION

SOURCE Elektrooboradovaniye dlya energeticheskikh ustanovok, by Engineers P. M. Kotenko and V. I. Nepomnyashchiy, and G. S. Pliss. Candidate of Technical Sciences, published by Gosenergoizdat, (ID 606797).

TABLE OF CONTENTS FOR
"ELECTRICAL EQUIPMENT FOR POWER INSTALLATIONS"

This book is a collection of 52 GOSTs on the machines, transformers, electrical apparatus, cable parts, equipment for electrical transmission lines, and porcelain line insulators most commonly used in power installations.

In preparing the collection, account has been taken of all the amendments to the standards adopted by the All-Union Standards Committee, Council of Ministers USSR, as of 1 January 1948.

TABLE OF CONTENTS

	<u>Page</u>
Introduction	5
I. General Norms and Letter Symbols	17
1. GOST 721-41 - Nominal Voltages of Receivers of Electric Power, Generators and Transformers	17
2. GOST 1494-42 - Electrical Engineering. Symbols for Fundamental Quantities (Letters)	20
3. OST 515 - International Electrical Units	24
II. Electric Machines	28
4. GOST 183-41 - Machines, Electric (Basic Standard)	28
5. GOST 533-41 - Generators, Steam-Turbine, Two-Pole, Air-Cooled	68
6. GOST 609-41 - Compensators, Synchronous, Power from 1,000 to 50,000 KVA	79
7. GOST 186-41 - Electric Motors, Three-Phase, Induction, with Short-Circuited Rotors, Power up to 100 KW	87

- 1 -

CONFIDENTIAL

CLASSIFICATION		CONFIDENTIAL	
STATE	<input checked="" type="checkbox"/> NAVY	<input checked="" type="checkbox"/> NSRB	DISTRIBUTION
ARMY	<input checked="" type="checkbox"/> AIR	<input checked="" type="checkbox"/> FBI	

CONFIDENTIAL

CONFIDENTIAL

50X1-HUM

	Page
8. GOST B-1042-41 - Electric Motors, Three-Phase, Induction, With Phase Rotors, Power up to 1,500 KW	90
9. GOST 3222-46 - Machines, Electric. Shaft Ends, Cylindrical	95
10. GOST 3730-47 - Machines, Electric. Shaft Ends, Conical	97
11. GOST 3729-47 - Machines, Electric and Machines, Nonelectric, Directly Connected to Them. Height of Axis of Rotation	100
III. Transformers	102
12. GOST 401-41 - Transformers, Power, Oil	102
13. GOST 1983-43 - Transformers, Voltage	141
14. GOST E14-40 - Transformers, Current	148
IV. Electrical Apparatus	156
15. GOST 687-41 - Breakers, High Voltage	156
16. GOST 689-41 - Disconnecting Switches, High Voltage, for Interior and Exterior Installations	173
17. GOST 2213-43 - Fuses, High Voltage, AC	183
18. GOST 711-41 - Relays, Secondary, Protective (Basic Standard)	191
19. GOST 3698-47 - Relays, Current, Secondary, Protective	199
20. GOST 3699-47 - Relays, Voltage, Secondary, Protective	203
V. Electric Cables, Wire and Cords	207
21. GOST 839-41 - Wires, Bare, Copper, Aluminum, and Steel-Aluminum	207
22. GOST NKTP 8173/1001 - Wire, Iron, Multistrand for Overhead Electric Transmission Lines	211
23. GOST 340-41 - Cables, Electric Power With Copper Strands, With Impregnated Cable-Paper Insulation	218
24. GOST NKTP 3507 - Cables, Control, With Impregnated Cable-Paper Insulation	237
25. GOST 433-41 - Cables, Electric Power With Rubber Insulation, Lead Coated	247
26. GOST 1508-47 - Cables, Electric, Control, With Rubber Insulation	256
27. GOST 1977-43 - Cables and Cords, Installation, With Copper Strands and Rubber Insulation	263
VI. Equipment for High-Voltage Electric	
Transmission Lines	270
28. GOST 2721-44 - Terms. Conventional Symbols	270
Equipment for Suspension Insulators	
29. GOST 2722-44 - Insulator Caps	283
30. GOST 2723-44 - Insulator Rods	285
Coupling Equipment	
31. GOST 2724-44 - Shackles	287
32. GOST 2725-44 - Loop Eyes	288
33. GOST 2726-44 - Dumbbells	289
34. GOST 2727-44 - Eye Shackles	290
35. GOST 2728-44 - Intermediate Links	292
36. GOST 2729-44 - Beams	294
Tightening Equipment	
37. GOST 2730-44 - Clamps, Tightening, Wedge-Shaped	296
38. GOST 2731-44 - Clamps, Tightening, Bolt	296

- 2 -

CONFIDENTIAL

CONFIDENTIAL

CONFIDENTIAL

CONFIDENTIAL

50X1-HUM

	<u>Page</u>
39. GOST 2732-44 - Clamps, Tightening, Pressed	300
<u>Supporting Equipment</u>	
40. GOST 2733-44 - Clamps, Supporting, Sliding	303
41. GOST 2734-44 - Clamps, Supporting, Dead-end	305
42. GOST 2735-44 - Clamps, Supporting, Dead-end, Rolling	308
43. GOST 2736-44 - Clamps, Supporting, Releasing	311
<u>Protective Equipment</u>	
44. GOST 2737-44 - Horns, Protective for Strings of Strain Insulators	314
45. GOST 2738-44 - Horns and Rings, Protective for Supporting Strings of Insulators	317
46. GOST 2739-44 - Rings, Protective, for Strings of Strain Insulators	319
<u>Antivibration Equipment</u>	
47. GOST 2740-41 - Dampers	321
<u>Connecting Equipment</u>	
48. GOST 2741-44 - Connectors, Pressure Clamping	323
49. GOST 2742-44 - Connectors, Mounted by Drawing	326
50. GOST 2743-44 - Connectors, Mounted by Pressing	328
51. GOST 2744-44 - Acceptance Rules. Methods of Testing. Marking and Packing	330
52. GOST 1232-41 - Insulators, Porcelain, Line, for High Voltage	335

- E N D -

- 3 -

CONFIDENTIAL

CONFIDENTIAL